

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
15. Juli 2004 (15.07.2004)

PCT

(10) Internationale Veröffentlichungsnummer
WO 2004/059203 A1

(51) Internationale Patentklassifikation⁷: F16L 33/26, 25/00

(21) Internationales Aktenzeichen: PCT/EP2003/013890

(22) Internationales Anmeldedatum:
8. Dezember 2003 (08.12.2003)

(25) Einreichungssprache: Deutsch

(26) Veröffentlichungssprache: Deutsch

(30) Angaben zur Priorität:
102 61 557.8 23. Dezember 2002 (23.12.2002) DE

(71) Anmelder und

(72) Erfinder: WEINHOLD, Karl [DE/DE]; Im Jagdfeld 42,
41464 Neuss (DE).

(74) Anwalt: THIELMANN, A.; Cohausz & Florack, Bleich-
strasse 14, 40211 Düsseldorf (DE).

(81) Bestimmungsstaaten (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Bestimmungsstaaten (*regional*): ARIPO Patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), eurasisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches Patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

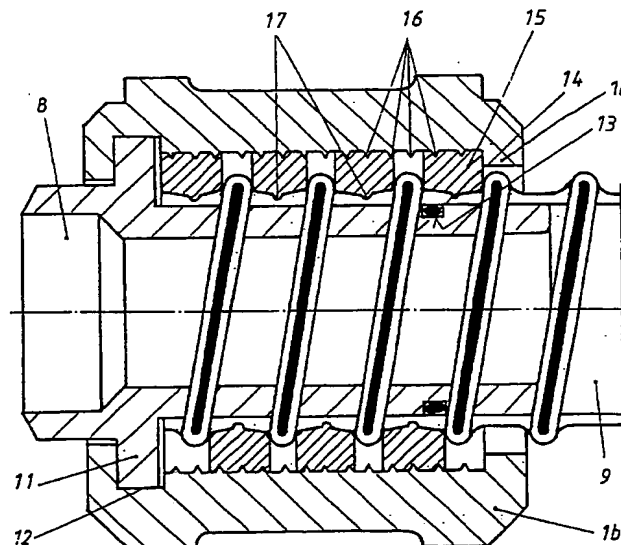
Veröffentlicht:

— mit internationalem Recherchenbericht

[Fortsetzung auf der nächsten Seite]

(54) Title: COUPLING FOR A STEEL SPIRAL FLEXIBLE HOSE

(54) Bezeichnung: KUPPLUNG FÜR STAHLWENDELSCHLÄUCHE



(57) Abstract: The invention relates to a coupling for steel spiral flexible hoses, comprising a clamp which encompasses a flexible hose, consisting two part shells and which is formed as a clamping jaw which has an inner contour which encompasses in a positive fit a steel spiral flexible hose placed onto a spout. In order to be able to use the above-mentioned coupling with steel spiral flexible hoses having various types of gradients, a spiral is provided, encompassing the steel spiral flexible hose (9) in the region of the spout (8) along various paths as far as a projection (1c) on the end of the clamp (1) and which is clamped by the clamp (1) in an axially non-displaceable manner.

[Fortsetzung auf der nächsten Seite]

WO 2004/059203 A1

INTERNATIONAL SEARCH REPORT

PCT/EP 03/13890

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L33/26 F16L25/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 153 236 A (WEINHOLD KARL) 14 November 2001 (2001-11-14) cited in the application figures	1-5, 12, 15-19
A	DE 881 287 C (BUSCH JAEGER LUEDENSCHIED) 29 June 1953 (1953-06-29) figures 1,2	1,8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

2 April 2004

Date of mailing of the international search report

13/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Budtz-Olsen, A

INTERNATIONAL SEARCH REPORT

PCT/EP 03/13890

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1153236	A	14-11-2001	DE 19907412 A1	07-09-2000
			AU 766967 B2	30-10-2003
			AU 2539700 A	04-09-2000
			CA 2359619 A1	24-08-2000
			CN 1334909 T	06-02-2002
			WO 0049325 A1	24-08-2000
			EP 1153236 A1	14-11-2001
			ES 2183645 T3	16-03-2003
			TR 200102354 T2	22-04-2002
			US 6523230 B1	25-02-2003
			ZA 200106504 A	07-11-2002
DE 881287	C	29-06-1953	NONE	